




INFORMATION TECHNOLOGY STRATEGIC PLAN

FOR FISCAL YEARS: 2022-2024

A large, light gray map of Arizona is centered on the page. The map is overlaid on a background of blue and white binary code (0s and 1s) that appears to be flowing or scrolling. The text "STATE APPELLATE COURTS" is written in a bold, dark blue serif font across the center of the map.

STATE APPELLATE COURTS

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STATE APPELLATE COURTS

INTRODUCTION

This information technology strategic plan for the Arizona Supreme Court and the Arizona Court of Appeals, including Divisions One and Two (the state appellate courts), which covers the period from January 2020 through June 2024, is an update to the FY21-FY23 plan submitted in April 2020. The Supreme Court provides administrative guidance to the Court of Appeals and also works closely with the Administrative Office of the Courts (AOC) in the areas of court finance and legislative issues. Each court also works closely with the State of Arizona, which funds the courts.

The following comprise the courts covered by the plan:

Arizona Supreme Court
Court of Appeals, Division One
Court of Appeals, Division Two

Aspects of the automation for the appellate courts are centralized, although each division of the court of appeals maintains its own IT staff. The courts participate in providing direction for the strategic automation projects through a variety of user and other statewide policy groups. These include:

- The Commission on Technology and its subcommittees:
 - The Technical Advisory Council
 - The COT e-Courts Subcommittee and Appellate e-Court Subteam.

A. PLANNING METHOD AND PARTICIPANTS

This section outlines the participants that contributed to formulating this iteration of the Information Technology Plan for the state appellate courts.

ARIZONA SUPREME COURT:

Tracie Lindeman	Clerk of Court
Lisa Banen	Chief Staff Attorney

ARIZONA COURT OF APPEALS, DIVISION ONE:

Peter Swann	Chief Judge
Kent Cattani	Vice Chief Judge
Amy Wood	Clerk of Court
Barbara Vidal Vaught	Chief Staff Attorney

ARIZONA COURT OF APPEALS, DIVISION TWO:

Garye L. Vásquez	Chief Judge
Itza French	Deputy Clerk
Beth Beckmann	Chief Staff Attorney
“Mac” McCallum	Staff Attorney
Jeff Handler	Clerk of Court

Participants in the technology planning effort included IT leaders from the state appellate courts:

SUPREME COURT, AOC ITD:

Diana Hegyi, Facilitator
Jeff Viemont

COURT OF APPEALS, DIVISION ONE:

Carlos Solano

COURT OF APPEALS, DIVISION TWO:

Nathan Tonnessen-Marler

B. JUDICIARY STRATEGIC AGENDA: STATE AND LOCAL

B.1. JUDICIAL BRANCH STATEWIDE AGENDA

The court supports ***JUSTICE FOR THE FUTURE: PLANNING FOR EXCELLENCE 2019-2024*** and its vision to increase the public's trust in the court system, to inspire confidence that individual rights are being protected, and to ensure that all citizens are being treated fairly. This strategic agenda was released in July 2019 at the direction of the judiciary's new chief justice. It remains consistent with the previous ***ADVANCING JUSTICE TOGETHER*** vision and encompasses five broad goals, each associated with several key strategic business needs. The goals are:

1. Promoting Access to Justice;
2. Protecting Children, Families, and Communities;
3. Promoting Judicial Branch Excellence and Innovation;
4. Enhancing Professionalism within Arizona's Courts; and
5. Promoting Public Trust and Confidence.

B.2. LOCAL COURT AND AGENCY STRATEGIC AGENDAS, INITIATIVES, AND BUSINESS PRESSURES WITH RESPONDING LOCAL COURT AND AGENCY TECHNOLOGY INITIATIVES

The state appellate courts have identified strategic business goals, initiatives, and pressures as follow:

Court/Local Agency Name	Strategic Agenda	Related IT Initiative(s)
All	Receive digital input for all case-related filings from all types of filers for all types of filings <ul style="list-style-type: none">• Attorneys• Self-represented litigants• Court reporters• Lower court records	Continue to expand electronic filing and electronic record efforts <ul style="list-style-type: none">• Expand court reporter transcripts transfer• Integrate eFileAZ into AzACES CMS• Create AzACES portal access for court reporters to submit transcripts• Replace the Rules Forum with AzACES portal
All	Enable public access to all documents not under seal, to the extent legally appropriate.	Construct public access to court documents facility Populate the central case repository (CCR) and central document repository (CDR) Create webservice to supply documents from Division Two EDMS

Court/Local Agency Name	Strategic Agenda	Related IT Initiative(s)
All	<p>Allow litigants and judges to participate remotely in “live” appellate proceedings, including teleconferences/ videoconferences.</p>	<p>Enable judges’/ justices’ remote participation in conferences, deliberation, emergency motion consideration</p> <p>Expand video capabilities in courtrooms to accommodate oral argument</p> <p>Provide a mobile solution for oral arguments on the road</p>
All	<p>Shorten overall case processing and decision timeline</p> <ul style="list-style-type: none"> Reach directly into trial court record Revise time standards for transfer of index of record <p>Receive timely transcripts</p>	<p>Continue numbered index of record from trial court with hyperlinks to specific documents</p> <p>Enable hyperlinks in briefs and other filings directly to documents in the record of actions (including the trial court record)</p>
All	<p>Allow entry of limited video record of key testimony, where agreed by parties</p>	<p>Specify acceptable formats for video record</p> <p>Ensure accurate indexing of video records coming from lower courts</p>
All	<p>Re-engineer paper-based practices and related automation. Re-examine division of responsibilities among all roles in appellate processing. Provide enhanced automation for judges/justices.</p>	<p>Design and construct electronic workflow based on use cases, not paper process, for main work products of appellate courts</p> <p>Implement workflows in AzACES</p> <p>Enhance Division Two CaseDocs case processing application</p>
All	<p>Streamline workflow for judges/justices:</p> <ul style="list-style-type: none"> Drafting/filing/signing/distributing routine orders “Fast track” entry of conference decisions Obtain “real-time” transcripts Provide everything on one screen in one session 	<p>Create judge-centric automation to replace clerk-centric automation for judges/justices</p> <p>Implement Supreme Court SharePoint functionality with enhancements in AzACES</p> <p>Implement Court of Appeals Division One functionality in</p>

Court/Local Agency Name	Strategic Agenda	Related IT Initiative(s)
	<ul style="list-style-type: none"> Leverage consumer technologies <p>Share best practices among practitioners</p>	AzACES allowing for collaboration organized by judicial panels
Supreme Court & Division One	Simplify electronic distribution of orders	<p>Enable litigants to maintain e-mail contact information on court system</p> <p>Standardize electronic forms that produce orders</p> <p>Add contact devices to be notified</p> <p>Create “reverse 911” strategy to notify those affected by orders</p>
Division One, Supreme Court, Division Two	<p>Disaster Recovery Planning</p> <ul style="list-style-type: none"> Backups of all court data <p>Working plan on how to recover should an emergency strike</p>	Create an off-line back up of data and documents to protect in the instance of ransomware
All	Ensure remote access to court resources by court staff	<p>Find solutions to make VPN less arduous for users</p> <p>Expansion of network capabilities</p>
Supreme Court	Ensure continuation of operations during a pandemic	<p>Implement Cisco IP Communicator as part of remote work strategy.</p> <p>Exchange desktops for laptops for management team to allow remote work.</p> <p>Develop alternating “A” and “B” team schedules for onsite work.</p> <p>Implement expanded VPN access and multifactor authentication</p> <p>Utilize Teams/Zoom for meetings</p> <p>Utilize WebEx and Zoom for oral arguments</p> <p>Limit customers’ movement in the building by providing viewing room access, phone line to the Clerk’s office, forms and dropbox on the 1st and 2nd floor of the building.</p>

Court/Local Agency Name	Strategic Agenda	Related IT Initiative(s)
Division One, Division Two	Update the court's electronic communications	Update courtroom video digital equipment
Division One	Receive digital input for all case-related filings from all types of filers for all types of filings	Receive unemployment board case records electronically Accept electronic exhibits from Maricopa eCourtroom project
Division One	Increase capabilities to convert paper into digital images	Procure scanners to support scanning, implement scanning of sealed documents
Division Two	Develop and implement HR incident tracking system	Complete development of internal policies and tracking system
Division Two	Continuity of Operations process refinement	Cross-train personnel to ensure no "single links" exist in key systems so as to allow for illness/incapacitation

B.3. STATE APPELLATE COURTS TECHNOLOGY INITIATIVES RESPONDING TO AGENDAS, INITIATIVES, AND BUSINESS PRESSURES

The previous five years have focused on providing a stronger infrastructure, ensuring data can be recovered and enhancing security. Streamlining tasks necessary for IT maintenance has also been a focus. In the Supreme Court, development in SharePoint has created a collaborative work environment for the justices. In Division One, the development of a customized SharePoint system to support the collaborative work of the judges has been a critical enhancement. In both courts, these enhancements have changed much of the way work has been conducted. In the immediate future, attention will turn to a holistic solution for the court and enhancing the use of technology already in place.

2020 created unique challenges to all courts due to the COVID 19 Pandemic. Although courts strive to plan technology projects, the conditions resulting from the Pandemic created a new driver for technology needs and priorities.

Projects will be undertaken in these areas:

1. Replacing the Court Case Management System –The Supreme Court and Division One continue working with JTI, the vendor, to replace the aging Appellamtion case management system and greatly enhance functionality. New workflows will integrate functions in the Clerk's Office, Staff Attorneys' office, and Chambers; automate case tracking and processing; and provide readily available information via employee dashboards. This in turn will simplify opening and assigning cases, identifying and processing cases with conflicts, providing information to assigned panels, monitoring pending items, accessing status information, addressing motions, populating agendas, maintaining matrices, preparing staff attorney recommendations, drafting template orders and finalizing minutes

and orders. This will also eliminate the need for separate case tracking systems (i.e. excel and tasks) in the Staff Attorneys' office.

The implementation of the new case management system will include transition to the eFileAZ eFiling system and access to the Rules Forum will be through the system portal. Court reporters will file transcripts through the portal rather than through the eFiling system.

2. Increasing the Amount of Digital Records – Though a very large part of the record is currently electronic, some exceptions still exist. In the coming years, work will address these exceptions. Receiving the record electronically from ADES will be one area. Additionally, moving to electronic sealed records, and receiving digital exhibits from electronic courtrooms in the trial courts will be accomplished.

3. Accommodating a Video Record – Widespread use of consumer video technology (more content is added to YouTube in two months than was created in the past 60 years of broadcast television) is hastening the creation of a video record at lower courts, parts of which may become relevant to an appeals case. Upon agreement by parties, judges are willing to view a portion of the video record rather than waiting to obtain the written transcript of the proceeding. Video standards as well as indexing capabilities must be sufficient to enable efficient use of the video record by judges. A more creative solution may involve automated creation of a transcript at the appellate court from the raw video or audio record via commercial legal transcription software.

4. Shortening Records Transfer Time – As more clerks store case-related information and documents electronically, the trial court record and the index of record on appeal are routinely transmitted electronically rather than physically. Rules allowing 40 days for the transfer have become outdated. In a short time, the notion of actually transferring electronic records from one system to another will also become outdated, though the need for an index with links of some sort will likely remain. Judges' frustrating "long pole in the tent" is currently receipt of the official court reporter transcript from the lower court proceeding. Work is needed to shorten the time necessary for the transfer or to address the function of that transcript in another way – possibly via video record or legal speech-to-text software.

5. Remote Access to Appellate Case Records – Today parties/attorneys of record have access to the record via eFiling and judges and justices have access via SharePoint. The ultimate vision is for the public to be allowed Internet access to case documents in accordance with Supreme Court rules.

Division Two currently provides registered users remote access to their own case documents through **ODSPlusWebDocs**. All appellate courts make case information (not case documents) available to the public via their respective websites. The public is provided real-time access to case information on Division Two's website, while Division One and the Supreme Court make public case information available on their websites following a nightly refresh. Their static, refreshed-nightly approach will change to dynamic, on-demand access to electronic documents with the implementation of a remote public access solution backed by the OnBase Central Document Repository managed by the AOC.

6. Electronic Archival – Retention periods apply equally to case records in both paper and electronic form. The challenge of appropriately purging closed case records and archiving them in accordance with the State Library, Archives, and Public Records (SLAPR) statute and rules must be met, as this forms the final step in the life cycle of a case. Beginning with the end in mind, the state appellate courts will craft a strategy to reliably purge and archive data as well as documents in accordance with published retention periods and guidance from SLAPR.

7. Response to the Pandemic – Technology allowed the work of the Court to continue during the pandemic. The automated case management system, eFiling, SharePoint, laptops, enhanced VPN access, multifactor authentication, CISCO IP Communicator, scanners and other technology tools allowed staff to continue to work remotely in teams during the pandemic. Locating additional public access terminals on the entry floor of the building reduced the

footprint of the public in the building. Utilizing WebEx, the Supreme Court and Division Two were able to safely conduct oral arguments.

8. Other Items – In addition to the above:

- a. Division One will be updating video systems in both courtrooms.

C. CURRENT TECHNOLOGY ENVIRONMENT

This section describes both the statewide and local hardware and software environment. Hardware includes mainframes, servers, desktops, and other peripherals. Software includes statewide applications, local software and desktop productivity tools.

HARDWARE

The Arizona Judicial Branch has a diverse mix of hardware used by the various projects and programs that have evolved and applications that have been acquired and/or developed over the last several years. The mix of hardware that the county courts accesses includes the newest architectures designed to support the complexity of these applications and the large geographical area served by the Judicial Branch.

The server environment, hosted at the Administrative Office of the Courts Data Center, includes IBM AS/400s for JOLTS and general administrative operations of the Administrative Office of the Courts. The ACAP courts and the appellate courts are operating on IBM AIX systems. Windows servers provide for Internet, Intranet, e-mail, Statewide Crystal Enterprise/SSRS reporting, and Statewide remote on-line training as well as file and print sharing.

The desktop environment includes a variety of PCs. AOC/ITD, under COT's direction, replaced all the State-owned external (ACAP and JOLTS) PCs (about 3500) in FY15. Because of the long hardware life expected for the new PCs and the ever-shortening support cycle by software manufacturers, the project also included a change to a subscription model for the operating system and office productivity applications utilized by all PCs deployed in the courts' environment. This most recent refresh activity placed the following models in service:

- Desktop: HP EliteDesk 800 G5 Small Form Factor
Intel Core i5-10500 Processor (3.20 GHz, 6MB Cache), Intel HD Graphics 4600
8GB RAM, DDR4-2133 DIMM (2x4GB) RAM, 500GB 7200 RPM 3.5" Hard Drive
Intel I219LM Gigabit Network Connection, Intel Core i5 vPro
- Laptop: HP ZBook 15u G6 Notebook PC
Intel i5-6300U/UMA Graphics – L3D24AV, i5-7300 (2.4 GHz w/ Turbo, 3MB Cache) Processor, Intel HD Graphics 520, Intel Core i5 vPro, Integrated camera, Integrated HD
- Printer: E6B9A#ABA HP LaserJet - HP Laser Jet M605n/M608n

Division One hardware includes a variety of PC's, it is an ongoing project to have desktops and laptops replaced with the following:

- Desktop: Lenovo ThinkCentre M80q Intel Q470 Tiny ES-R with Slim DVD Rambo 9.0mm
Intel i5-10500T Processor (3.80 GHz, 12MB); 8GB Ram, DDR4-2666MHz; 512GB SSD Hard Drive
- Laptop: Lenovo ThinkPad T14S GEN 1, Intel i5-10310U Processor 1.7 GHz; Intel UHD Graphics;
Integrated Camera; 16GB RAM, 256GB SSD Hard Drive

- Printer: HP LaserJet P3015

Division Two hardware consists of

- Desktop: Dell Optiplex 5050/5060/5070 G2 Small Form Factor
Intel Core i5-7600 (Quad Core 3.5GHz, 6MB Cache); Intel HD Graphics
8GB RAM, DDR4-2400 (1x8GB) RAM, 256GB SSD Hard Drive
- Laptop: Dell Latitude 5290 2-in-1 touchscreen tablet/laptop
Intel Core i5-8350U Processor (Quad Core 1.7GHz, 6MB Cache); 8GB RAM, LPDDR3-1866 (8GB) RAM,
256GB SSD Hard Drive
- Printer: HP LaserJet - HP Laser Jet Pro 400 M402dn

The hardware listed in Appendix A reflects equipment used to support the court management system and other state-provided applications as well as additional local record keeping functions. Additional hardware beyond these desktop items is also listed.

SOFTWARE

Appendix A also identifies all the software used in the appellate courts. It includes the state-provided applications, such as Appellamation, and any word processing, spreadsheet, report writing, and other database or other tracking applications.

D. INFORMATION TECHNOLOGY STRATEGIC PROJECTS

This section identifies each statewide and local strategic project in which the appellate courts participate or will be actively pursuing over the next three years. For those projects primarily supported at the state level, it will identify project status and describe the local courts' planned participation and note any related, independent future plans. For independent but complementary local projects, additional details on resources and future plans are included.

This section also includes information for independent technology projects which are not primarily supported by state resources. Information on these projects includes showing alignment with both statewide and local technology strategic initiatives and enterprise architecture standards. Any technologies or products appearing in the "Retirement" column of the Enterprise Architecture standards table have a corresponding migration or replacement project identified.

The statewide strategic technology priorities as assigned by the Commission on Technology, are as follows:

1. Production Support
2. Manage & Improve Security
3. Mitigate Aging Technology Risk
4. Virtual Court Enablement
5. Increase Revenue Flow (FARE, eAccess, eFiling)
6. Public Facing Services (eFiling, eAccess, eNotification, ODR)
7. Increase Data Utilization (Access & BI)
8. Enhance Core Systems with New Functionality
9. Integrate Systems to Improve Productivity and Capability

COT members also reaffirmed the importance of existing strategic projects and placed them in the general priority set indicated below:

- Deploy & Refine New eFiling Case Types
- Design LJ Judge Automation
- Expand Automated Notification Capability
- JOLTSaz Dependency & Officer UI
- eCertification
- Justice Court eFiling
- FARE – Infrastructure Port/Enhance
- Deploy Online Dispute Resolution
- Mental Health Repository
- Jury+ Upgrade
- APETS Replacement
- Data Analysis Dashboards
- eWarrant System Rollout
- Appellate New CMS Implementation
- FARE Implementations for Non-Standard Courts
- OnBase Consolidations
- LJ PSA Automation
- Data Access Portals
- Digital Evidence
- Virtual Court Support
- Child Support Calculator Updates

* Note: Not all projects apply to all courts in the state.

COURT IT ACCOMPLISHMENTS

This section lists the accomplishments of the state appellate courts in information technology projects from January 2020 to January 2021.

Arizona Supreme Court

Strategic Project (State or Local)	Program / Project	Description	Local Accomplishment
Mitigate Technology Risk	CMS Replacement	Continue working with CMS vendor toward implementation.	Progress has been made on workflows, identification/implementation of data fields, forms development, etc
Improve Productivity and Capability	Oral Arguments during a Pandemic	Conducted oral arguments using WebEx	Completed
Improve Productivity and Capability	Telecommute during COVID	Utilized CISCO IP Communicator, laptops, VPN access, scanning, etc. to continue operations during the pandemic	Ongoing
Public Facing Services	Public Access during COVID	Created an annex to the Clerk's office equipped	Ongoing

Strategic Project (State or Local)	Program / Project	Description	Local Accomplishment
		with computers to allow the public access to court documents and e-pay while limiting movement in the building.	
Manage & Improve Security	Two-Factor Authentication	Implemented two factor authentication for access to Office 365 from any device.	
Digital Evidence	C2C (eAppeal) Revisions	Court to court software	Made revision or replacements

Court of Appeals, Division One Strategic Project (State or Local)	Program / Project	Description	Local Accomplishment
Local	Disaster Recovery Planning	Ransomware Protection	External hard drives purchased and a rotating back up of server information is now in place to protect against ransomware.
Local	Receive e-Exhibits	Receive e-Exhibits	Testing completed and receipt of electronic exhibits from a limited number of courtrooms at Maricopa Superior Court has begun.
Local	Enable Remote Oral Arguments during Pandemic		Technology, processes and training put in place to enable oral arguments to be conducted electronically.
Local	Enable Electronic Submission of Orders and Decisions during Pandemic		New email group inboxes established and policies and training in place to allow electronic vs. paper submission of orders from chambers and staff to the Clerk's Office
Local	Scanners (Pandemic)	Scanners	Small number of scanners purchased to allow for scanning of time-sensitive sealed information to a secure location for review remotely.

Court of Appeals, Division Two Strategic Project (State or Local)	Program / Project	Description	Local Accomplishment
Local	Disaster Recovery Planning	Ransomware/On-Site Disaster Protection	New external hard drives purchased and a rotating back up of server data continued
Local	Continuity of Operations Planning (COOP)	Cross-train personnel to ensure no “single links” exist in key systems to allow for illness/ incapacitation	Expedited and tested due to COVID; ongoing by definition
Improve Productivity and Capability	Oral Arguments during a Pandemic	Conducted oral arguments using WebEx	Completed and integrated with live/archived video streaming
Improve Productivity and Capability	Telecommute during COVID	Utilized Cisco AnyConnect VPN, laptops and refurbished HP desktops, VPN access, scanning, etc. to continue operations during the pandemic	Rollout complete; remote operations ongoing
Public Facing Services	Public Access during COVID	Maintaining Safe Access to Court Resources	Relocated equipment to the Clerk’s office exterior attorney research room to allow public access to court documents while limiting movement in the building. Enacted temperature screening and logging of incidents for court personnel, as well as date- badging for all court visitors
Manage & Improve Security	Two-Factor Authentication	Rollout of Duo two-factor authentication for court services	Implemented Duo two-factor authentication for access to Exchange and Division Two applications.
Manage & Improve Security	Password Management	Rollout of 1Password password management tool to court personnel	Implemented and provided one-on- one training for use of 1Password as a secure, centrally managed password repository

COURT PROJECTS MASTER LISTING

This section collects all information technology project-related information for the state appellate courts during fiscal years 2021 through 2023. Projects listed include both those in support of statewide efforts as well as strategic technology projects that support the court's strategic initiatives independent of the statewide projects.

Statewide Project Participation						
Strategic Project Name / Phase	Brief Project Description	Related Statewide Project	Participation Scheduling	Planned Completion Date	Current Project Lifecycle Phase	Project Risks, Issues, Concerns
Court Workflow	Enhance automation for judges by coordinating and streamlining the management of work through the various offices and staff of the court	CMS Upgrade/ Enhancement	Early adopter	FY21	Underway	Provide tools that reduce costs and enable efficient case processing
Document Annotation	Enable judges, staff attorneys, and other staff to make notes about document content in a way that shows up later	CMS Upgrade/ Enhancement	Early adopter	FY21	Planned	Individual annotations need to show only for the specific individual
Increase Public Access to Documents	Provide automated as well as manual redaction capabilities for documents	Access to Electronic Documents	Mid-cycle	FY22	Conceptual	Time and cost! High risk if redaction not 100 percent accurate
Reconstruct C2C for Central Document Repository	Speed transfers by reaching into CDR	Access to Electronic Documents	Mid-cycle	FY21	Conceptual	Is there another way to indicate approval?
Enhance Appellation	Continue to provide enhancements to Appellation CMS to meet needs of the	CMS Upgrade/ Enhancement	One of last	FY21	Pending	Ongoing improvements in functionality

Statewide Project Participation						
Strategic Project Name / Phase	Brief Project Description	Related Statewide Project	Participation Scheduling	Planned Completion Date	Current Project Lifecycle Phase	Project Risks, Issues, Concerns
	court					
Implement eUnivera e-Filing	Process e-Filings with AzACES	Electronic Filing	One of last	FY22	Planned	Simultaneous effort with CMS replacement
Implement eAccess	Allow electronic access to case documents for attorneys, litigants and the public	Access to Electronic Documents	Mid-cycle	FY22	Planned	
Electronic Sealed Documents	Receive sealed documents electronically via the new e-filing system and CMS	Electronic Filing	Early adopter	FY21	Planned	Maintaining security of the documents
Video Record of Key Testimony	Allow entry of limited video record of key testimony, where agreed by parties.	Access to Electronic Documents	Early adopter	FY23	Conceptual	
OnBase Foundation EP3 Upgrade	Accommodate Appellation back-end EDMS upgrade to Foundation EP3 by AOC	Electronic Filing & Expansion	Early adopter	FY21	EA Req'd	

Other Local Independent Projects

Strategic Project Name / Phase	Brief Project Description	Planned Completion Date	Current Project Lifecycle Phase	Project Risks, Issues, Concerns
Image Backup/Disaster Recovery Capability	Utilize network and data storage assets to create real-time backups of images/database at remote location	FY21	Planned	locating remote equipment room; part of statewide approach
Full-Text Document Searching	Speed judges' and staff's location of words, phrases, etc., in electronic documents	FY22	Planned	Install indexing software, index docs, ensure filers create character-based pdfs
Implement AzACES CMS	Implement new automated solution from JTI to replace Appellation	FY22	Underway	Reliant on vendor for solution
Supply Documents Directly from Division 2 EDMS	Enable webservice calls to Div. II EDMS with return of requested document(s)	FY22	Conceptual	Requires Div II effort
ADES Electronic Record	Receive ADES OnBase records through modified C2C interface	FY21	Underway	
Electronic Exhibits	Receive trial court exhibits electronically from Maricopa Superior electronic courtrooms	FY22	Planned	
Redesign ODSPlus Doc Generation	Transition from RTF to HTML for broader cross-platform compatibility	FY21	Underway	
Create Searchable Documents	Convert to PDF/OCR copies of record items transmitted from courts that lack searchable text	FY21	Underway	
Office 365 Migration	Transition from on-prem Exchange to Office 365 for e-mail/ collaborative services and Office licensing	FY22	Planned	
Update Electronic	Update the court's electronic	FY21	Planned	

Other Local Independent Projects				
Strategic Project Name / Phase	Brief Project Description	Planned Completion Date	Current Project Lifecycle Phase	Project Risks, Issues, Concerns
Communications	communications			
New HR System	Complete development of internal policies with incident and tracking system	FY22	HOLD	On Hold
Backup Servers Replacement	Replace Aging Remote Backup Servers over Multi-Year Period	FY23	Underway	
Desktop and Laptops Replacement	Replace Aging Desktops and Laptops	FY22	Underway	
Windows O/S Update	Test and Update OS on Desktops and Laptops	FY22	Underway	
Server O/S Update	Test and Update OS on Servers	FY21	Underway	
Exchange 2010 Update	Test and Update OS on Servers	FY21	Underway	
Set Up Offline Backup System	Ability to backup files and virtual servers offline	FY21	Underway	
Upgrade Courtroom Assistive Listening System	Replace aging listening system	FY22	Underway	
Update Domain Controllers	Update DC Forest and Domain Level to 2016, Upgrade Server to 2019	FY21	Underway	
eFiling Ingestor Upgrades	Address outdated sever O/S and TLS security risk by upgrading all ingestor servers	FY21	EA Req'd	

D.1. MAJOR STATEWIDE INITIATIVES AND PLANNING/IMPACT INFORMATION

N/A

D.2. LOCAL INFORMATION TECHNOLOGY STRATEGIC RESOURCES

This section provides high-level information about the technology spending and resources by court.

LOCAL TECHNOLOGY RESOURCES				
Court	State Device Cost	Other Technical Cost	Number of:	
			Court FTE Technical Staff	City or County FTE Technical Support Staff
Supreme Court			1.0	N/A
Division One			3.5	N/A
Division Two			2.0	N/A

APPENDIX A. CURRENT ENVIRONMENT

1. HARDWARE ENVIRONMENT BY COURT

This section lists the judicial branch-owned hardware deployed in the state appellate courts, including mainframes, servers, desktops, and other peripherals.

Court	Number of PCs	PC Operating System	Number of Laptops	Laptop Operating System	Number of Network Printers
Division Two	45	Windows 10	26	Windows 10	11
Division One	120	Windows 10	34	Windows 10	37
Supreme Court	59	Windows 10	28	Windows 10	22

2. HARDWARE FOR SPECIAL FUNCTIONS

Court	Number of:				
	Public Access PCs	In Courtroom PCs	In Chambers PCs	Dedicated Imaging/ Scanning Workstations	Other PCs
Supreme Court	4		Included in above count	2 scanners 1 fax	4 iPads 7 iPhones
Division Two	1	1	Included in above count	2 fax 4 scan/copy	6 Dell Latitude 5290 tablets 5 Dell Latitude E6440 laptops 10 Asus Transformer tablets 1 Surface Book Pro 2 tablet (included in laptop count)
Division One	3	Incl above	Included in above count	2 fax 7 scanners	16 iPads 15 Surface Tablets

3. LOCAL SERVER HARDWARE AND FUNCTION

LOCAL SERVER INFORMATION					
Court/Dept.	# Brand / Model	Operating System	Databases	Managed By	Use / Applications
Division Two	Dell PowerEdge R440	Windows Server 2016		Division Two	EDMS, Web
Division Two	Dell PowerEdge R520	Windows Server 2016		Division Two	Exchange 2016
Division Two	Dell PowerEdge R430	Windows Server 2016		Division Two	Virtual Server Exchange/OWA
Division Two	Dell PowerEdge R530	2 - Windows Server 2012 R2	SQL 2014	Division Two	EDMS; Virtual Server File and Print; Virtual

LOCAL SERVER INFORMATION					
Court/Dept.	# Brand / Model	Operating System	Databases	Managed By	Use / Applications
					Domain Controller
Division Two	Dell PowerEdge R520	Windows 2016		Division Two	Backup Exec
Division One	Dell PowerEdge VRTX	Server 2019	SQL2014	Division One	Hyper-V – Virtual Servers
Division One	Dell PowerEdge R730xd	Server 2019		Division One	Hyper-V - SCDFM – Virtual Servers
Division One	PowerEdge R240 PowerProtect DD3300 IDPA 4400	Server 2019		Division One	Cyber Recovery – Vault “Air Gap” Design
Supreme Court	See AOC inventory in Branchwide IT Strategic Plan	See AOC inventory in Branchwide IT Strategic Plan y		AOC	

4. NETWORK ENVIRONMENT

The state courts’ network is the Arizona Judicial Information Network (AJIN), maintained by the AOC.

5. SOFTWARE ENVIRONMENT

This section identifies all the software used in the state appellate courts. It includes the state-provided applications (such as Appellamtion) and any word processing, spreadsheet, report writing and other database or other tracking applications.

LOCAL APPLICATIONS						
Application Name	Description of Application	Courts Using	Developed / Supported By	Vendor Package, Bolt-On, or Standalone	Implementation Date	Replacement Date / Strategy
Appellamtion	State standard appellate case and cash management system.	AZ Supreme Court and Appeals Division One	AOC			
Appellamtion:	A module of	AZ Supreme Court;	AOC			

LOCAL APPLICATIONS

Application Name	Description of Application	Courts Using	Developed / Supported By	Vendor Package, Bolt-On, or Standalone	Implementation Date	Replacement Date / Strategy
Receipting	Appellamtion to process payments.	Division One				
Appellamtion: Calendaring	A module of Appellamtion integrated to docket and case management that tracks all events and provides daily calendars.	AZ Supreme Court; Division One	AOC			
Appellamtion: Document Management	A module of Appellamtion that integrates with the internal document mgt. system.	AZ Supreme Court; Division One	AOC			
Appellamtion: Document Production	A module of Appellamtion that feeds the internal document management system.	AZ Supreme Court; Division One	AOC			
ODSPlus	Case Mgt System	Division Two	Division Two			
CaseDocs	Chambers Case Mgt System	Division Two	Division Two			
ODSPlus WebDocs	Web access (including remote) to court documents.	Division Two	Division Two			
Microsoft Word 2016, 2019	A word processing system.	AZ Supreme Court; Division One; Division Two	Microsoft/local & AOC staff			
Windows 7	A PC operating system	Division One	Microsoft/Division One			
Windows 10	A PC operating system	AZ Supreme Court; Division One	Microsoft/local & AOC staff			

LOCAL APPLICATIONS

Application Name	Description of Application	Courts Using	Developed / Supported By	Vendor Package, Bolt-On, or Standalone	Implementation Date	Replacement Date / Strategy
Outlook 365/2016	E-mail client and calendar	AZ Supreme Court; Division One	Microsoft			
Exchange Server	E-mail server	Division Two	Microsoft/ Division Two			
Outlook Web Access	Web email	AZ Supreme Court; Division One; Division Two	Microsoft/AOC/ Division Two			
DBMS	Database mgt tools	AZ Supreme Court	SQL Server			
DBMS	Database	AZ Supreme Court; Division One	IBM Informix			
DBMS	Database Mgt.	Division Two	Division Two/Microsoft			
Adobe Acrobat Reader	A free product from Adobe Acrobat for reading documents in pdf format	AZ Supreme Court; Division One; Division Two	Adobe/AOC			
Acrobat PDF Writer	PDF creation/ conversion	AZ Supreme Court; Division One; Division Two	Adobe			
GhostScript	PDF creation/ conversion	AZ Supreme Court; Division. One	Distributed with GNU general public license			
Excel	A spreadsheet product from Microsoft.	AZ Supreme Court; Division One; Division Two	Microsoft			
Visio	Diagramming/ flowcharting software	AZ Supreme Court; Division One; Division Two	Microsoft			
Access	Database	AZ Supreme Court	Microsoft			Bar admission list will be integrated into AzACES in FY22

LOCAL APPLICATIONS

Application Name	Description of Application	Courts Using	Developed / Supported By	Vendor Package, Bolt-On, or Standalone	Implementation Date	Replacement Date / Strategy
MS Office 2016, 2019	Office production tools (Word, Excel, PowerPoint)	AZ Supreme Court; Division One; Division Two	Microsoft			
Sophos Central (Endpoint Protection and Intercept X)	Virus detection and ransomware protection for all court computers	AZ Supreme Court; Division One; Division Two	Sophos			
Digital Audio: Product Name: Audacity	Record OAs to MP3	Division One	Sony			
Document Scanning Product Name: Ricoh Aficio MFP	Imaging system	Division Two	Ricoh			
Document Scanning Product Name: OnBase Production Document Imaging	Imaging system	AZ Supreme Court/Division One	Hyland/DataBank Local			
Electronic Document Management System Product Name: WebDMS	Storage and retrieval of electronic documents	Division Two	Division Two, Microsoft			
Electronic Document Management System Product Name:	Storage and retrieval of electronic documents	AZ Supreme Court and Division One	Hyland/DataBank/ Local			

LOCAL APPLICATIONS

Application Name	Description of Application	Courts Using	Developed / Supported By	Vendor Package, Bolt-On, or Standalone	Implementation Date	Replacement Date / Strategy
OnBase EDMS						
Integration: Electronic Records on Appeal Product Name: e-Blueback		Division Two, Pima and Pinal SC	Division Two			
Integration: Electronic Records on Appeal Product Name: e-Appeal	Support e-filing of the record on appeal and amendments to the record.	Division One	AOC			
Electronic Filing: Product Name: e-filer		Division Two	Division Two			
Electronic Filing: Product Name: Court Rules Forum	Permits e-filing of rule change petitions and comments	AZ Supreme Court	AOC			JTI portal with implementation of the CMS FY22
e-Distribute	Electronic distribution of court documents to litigants	Division Two	Division Two			
e-PR	Electronic Petition for Review	Division Two/ASC	Division Two			
Message Transport/Middleware Product Name: MQ Series	Supports e-Appeal	AZ Supreme Court/Division One/Division Two	IBM/AOC			

LOCAL APPLICATIONS

Application Name	Description of Application	Courts Using	Developed / Supported By	Vendor Package, Bolt-On, or Standalone	Implementation Date	Replacement Date / Strategy
Court Website	Provides information about courts, public access, rules, oral argument summaries, court decisions, etc.	AZ Supreme Court	AZ Supreme Court			
Court Website	Provides public access to court information, and opinions; provides public notification of opinions	Division Two	Division Two			
Court Website	Provides general information for court, including access to opinions and memorandum decisions	Division One	Division One			
ColdFusion	Web Application Development	Division Two	Adobe/ Division Two			
DreamWeaver	Web application creation/editing tool	Division Two	Adobe			
XML Spy	XML development tool	AZ Supreme Court	Altova			
.NET Framework SDK	.NET environment development	AZ Supreme Court, Division One	Microsoft			
PowerBuilder	Development environment	AZ Supreme Court	Sybase			
Visible Developer	Development environment	AZ Supreme Court	Visible Systems Corp			
Visual Studio	Development environment	AZ Supreme Court	Microsoft			
PVCS	Source Code	AZ Supreme Court	Altova			

LOCAL APPLICATIONS

Application Name	Description of Application	Courts Using	Developed / Supported By	Vendor Package, Bolt-On, or Standalone	Implementation Date	Replacement Date / Strategy
	Management					
Source Safe	Source Code Management	AZ Supreme Court	Microsoft			
Daily Decisions	Notification system for the public allowing self-sign up	Division Two	Division Two			
Constant Contact	Notification system for the public allowing self-sign up	Division One	Vendor			
nCourt	Payment processing vendor	Division One, Supreme Court	Vendor			

6. COMPARISON OF ENVIRONMENT TO ARIZONA JUDICIAL BRANCH ENTERPRISE ARCHITECTURE

The table below prompts you to identify any current technologies and products classified in the retirement and containment categories of the architecture. Beginning with the FY08 plan, COT requires that a project be defined for the removal/replacement or any item listed in the “retirement” category within plan period. Items in the “containment” category can have no additional use without exception being granted by COT. The next stop on the life cycle is retirement; therefore, further investment is unwise and serves to make removal/replacement only more difficult and expensive.

The complete, updated table appears on the COT website at <http://www.azcourts.gov/cot/EnterpriseArchitectureStandards.aspx>. Where there are unique, local undertakings that cannot be leveraged, a court is free to go beyond the standards set in the table. When sharable modules related to core applications are developed, the standards must be followed.

Arizona Supreme Court

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
APPLICATIONS & TOOLS				
User Interface Delivery Method for Public Access	Internet Explorer	HTTP unsecured anything, all links should use HTTPS/TLS		
User Interface Delivery Method for Business Applications	Character based, Silverlight, Plugin-based, Classic ASP	.NET FULL Framework		
Electronic Document Management	Hyland OnBase <17	Hyland OnBase 17/18	OnBase 17 SP1	
Document Imaging	Kofax Card (SCSI)	Kofax Ascent Capture	OnBase PDI	
Report Writer for Ad Hoc Reporting	Crystal <10 MS-SSRS ≤2008	Crystal 10 MS-SSRS 2012	Crystal 10	
Report Writer for Business Application Reports	Crystal <10 MS-SSRS ≤2008	Crystal 10 MS-SSRS 2017	Crystal 10	
Development Languages	ASP (Classic), COBOL, JAM, RPG, Windows Workflow Foundation	Java, .NET FULL Framework		

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
Development Environment	Visual Studio ≤2012, Windows Workflow Foundation	Visual Studio 2017		
Source Control	Aldon, VSS, CCC Harvest, Mercurial	SVN, source control process		
Code Generation	Alachisoft, Visible Developer			
OFFICE PRODUCTIVITY TOOLS				
Word Processing	Word ≤2016	Word 2018	Word 365/2019	
Spreadsheet	Excel ≤2016	Excel 2018	Excel 365/2019	
Presentation	PowerPoint ≤2016	PowerPoint 2018	PowerPoint 365/2019	
Local Standalone Database	MS-Access ≤2016	MS-Access 2018		
E-mail Client	Outlook ≤2016, GroupWise (unsupported)	Outlook 2018, GroupWise (supported versions)	Outlook 365/2019	
Instant Messaging	MS-Live Communication Server, Lync, Skype for Business 2013	Skype for Business 2015	Skype for Business	
Collaboration	Live Communication Server, SharePoint Server <2013, Google Apps	SharePoint Server ≥2013	SharePoint 365/2019	
Distance Learning		Centra		
DATA ARCHITECTURE				
DBMS	SQL Server <2012 R2, Informix ≤11.7.x	SQL Server 2012/2014, Informix 12.1, MySQL 7.5	Informix SQL 2008	
DBMS Modeling Tools	Power Designer <16.x	Power Designer 16.x		
Data Exchange Model	XML homegrown	Fixed format, GJXDM		
Data Transmission	Triple Data Encryption			

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
Encryption	Standard (DES)			
e-Mail Encryption		S/MIME		
NETWORKS AND PLATFORMS				
Client Operating System	<Windows 10 1809	Windows 10 1809	Windows 10	
Server & Network Operating Systems	Windows ≤2008 R2	Windows Server 2012 R2	Windows 2008	
SHARED SERVICES				
Component Service Layer	DCOM, ASP (classic), Remoting	Services (previous version,)		
Login Authentication	Unsecured content	UserID/Password		
Remote Access Through Internet by Employees or Contractors	ipsec/AnyConnect			
Remote Access Through Internet by Vendors or Trusted Partners	ipsec/AnyConnect; TeamViewer n-2 version	TeamViewer n-1 version		
MESSAGE TRANSPORT MIDDLEWARE				
Message Transport	MQ ≤V7.1	MQ V7.5/V8.0	MQ 9.0	
Data Transformation	Data Junction, MQSI, DTS	Cloverleaf, WMB V10.0, BizTalk		
Data Routing/Publish and Subscribe	MQSI	Cloverleaf, WMB V10.0, BizTalk		
File Transfer, Transactional and Scheduled Production (Mission Critical)	FTP (intercourt and using public Internet), MQ ≤7.1	SFTP (intracourt only), MQ V7.5/8.0	MQ 9.0	
File Transfer,	MQ ≤7.1, FTP	MQ V7.5/8.0	MQ 9.0	

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
Production Non-Transactional and Ad Hoc (Not Mission Critical and Not Sensitive)				

Court of Appeals, Division One

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
APPLICATIONS & TOOLS				
User Interface Delivery Method for Public Access	Internet Explorer	HTTP unsecured anything, all links should use HTTPS/TLS	Google Chrome	
User Interface Delivery Method for Business Applications	Character based, Silverlight, Plugin-based, Classic ASP	.NET FULL Framework		
Electronic Document Management	Hyland OnBase <17	Hyland OnBase 17/18	OnBase 17 SP1	
Document Imaging	Kofax Card (SCSI)	Kofax Ascent Capture	OnBase PDI	
Report Writer for Ad Hoc Reporting	Crystal <10 MS-SSRS ≤2008	Crystal 10 MS-SSRS 2012	Crystal 10	
Report Writer for Business Application Reports	Crystal <10 MS-SSRS ≤2008	Crystal 10 MS-SSRS 2017	Crystal 10	
Development Languages	ASP (Classic), COBOL, JAM, RPG, Windows Workflow Foundation	Java (on a business case need basis), .NET Framework ≤V3.X, Silverlight,		
Development Environment	Visual Studio ≤2015, Windows Workflow Foundation	Visual Studio 2017		

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
Source Control	Aldon, VSS, CCC Harvest, Mercurial	SVN, source control process		
Code Generation	Alachisoft, Visible Developer			
OFFICE PRODUCTIVITY TOOLS				
Word Processing	Word ≤2016	Word 2018	Word 365/2019	
Spreadsheet	Excel ≤2016	Excel 2018	Excel 365/2019	
Presentation	PowerPoint ≤2016	PowerPoint 2018	PowerPoint 365/2019	
Local Standalone Database	MS-Access ≤2016	MS-Access 2018		
E-mail Client	Outlook ≤2016, GroupWise (unsupported)	Outlook 2018, GroupWise (supported versions)	Outlook 365/2019	
Instant Messaging	MS-Live Communication Server, Lync, Skype for Business 2015	Skype for Business 2016	Microsoft Teams	
Collaboration	Live Communication Server, SharePoint Server <2013, Google Apps	SharePoint Server ≥2013, Skype for Business,	SharePoint Online	
Distance Learning		Centra		
DATA ARCHITECTURE				
DBMS	SQL Server <2012 R2, Informix ≤11.7.x	SQL Server 2012/2014, Informix, 12.1, My SQL 7.5	Informix, SQL 2014	
DBMS Modeling Tools	Power Designer <16.x	Power Designer 16.x		
Data Exchange Model	XML homegrown	Fixed format, GJXDM		
Data Transmission Encryption	Triple Data Encryption Standard (DES)			
e-Mail Encryption		S/MIME		
NETWORKS AND PLATFORMS				

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
Client Operating System	<Windows 10 1809	Windows 10 1809	Windows 7, Windows 10	Replace final Win 7 PC by end of FY
Server & Network Operating Systems	Windows ≤2008 R2	Windows Server 2012 R2	Windows Server 2019, 2016	
SHARED SERVICES				
Component Service Layer	DCOM, ASP (classic), Remoting	Services (previous version), unstructured APIs, WCF		
Login Authentication	Unsecured content	UserID/Password		
Remote Access Through Internet by Employees or Contractors	ipsec/AnyConnect		AnyConnect (Employees Only)	
Remote Access Through Internet by Vendors or Trusted Partners	ipsec/AnyConnect; TeamViewer n-2 version	TeamViewer n-1 version		
MESSAGE TRANSPORT MIDDLEWARE				
Message Transport	MQ ≤V7.1	MQ V7.5/V8.0		
Data Transformation	Data Junction, MQSI, DTS	Cloverleaf, WMB V10.0, BizTalk		
Data Routing/Publish and Subscribe	MQSI	Cloverleaf, WMB V10.0, BizTalk		
File Transfer, Transactional and Scheduled Production (Mission Critical)	FTP (intercourt and using public Internet), MQ ≤7.1	SFTP (intracourt only), MQ V7.5/8.0	SFTP	
File Transfer, Production Non-Transactional and Ad Hoc (Not Mission Critical and Not Sensitive)	MQ ≤7.1, FTP	MQ V7.5/8.0		

Court of Appeals, Division Two

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
APPLICATIONS & TOOLS				
User Interface Delivery Method for Public Access	Internet Explorer	HTTP unsecured anything, all links should use HTTPS/TLS	HTTPS/TLS 1.2 (via Firefox/Edge Chromium); Firefox,	
User Interface Delivery Method for Business Applications	Character based, Silverlight, Plugin-based, Classic ASP	.NET FULL Framework	HTML/CFML	
Electronic Document Management	Hyland OnBase <17	Hyland OnBase 17/18	WebDMS (upgraded to SQL 2014; SIRE desktop application eliminated)	
Document Imaging	Kofax Card (SCSI)	Kofax Ascent Capture	Ricoh Aficio MFP	
Report Writer for Ad Hoc Reporting	Crystal <10 MS-SSRS ≤2008	Crystal 10 MS-SSRS 2012	MS-SSRS 2014	
Report Writer for Business Application Reports	Crystal <10 MS-SSRS ≤2008	Crystal 10 MS-SSRS 2017	MS-SSRS 2014	
Development Languages	ASP (Classic), COBOL, JAM, RPG, Windows Workflow Foundation	Java, .NET FULL Framework	CFML (ColdFusion Markup Language)	
Development Environment	Visual Studio ≤2015, Windows Workflow Foundation	Visual Studio 2017, PowerBuilder, MS-Access, Panther	Adobe ColdFusion 2016	
Source Control	Aldon, VSS, CCC Harvest, Mercurial	SVN, source control process	Adobe Dreamweaver source library control	
Code Generation	Alachisoft, Visible Developer		Adobe Dreamweaver 21.1	
OFFICE PRODUCTIVITY TOOLS				
Word Processing	Word ≤2016	Word 2018	Word 2016	

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
Spreadsheet	Excel ≤2016	Excel 2018	Excel 2016	
Presentation	PowerPoint ≤2016	PowerPoint 2018	PowerPoint 2016	
Local Standalone Database	MS-Access ≤2016	MS-Access 2018		
E-mail Client	Outlook ≤2016, GroupWise (unsupported)	Outlook 2018, GroupWise (supported versions)	Outlook 2016	
Instant Messaging	MS-Live Communication Server, Lync, Skype for Business 2015	Skype for Business 2016	Microsoft Teams	
Collaboration	Live Communication Server, SharePoint Server <2013, Google Apps	SharePoint Server ≥2013, Skype for Business	Cisco WebEx, Microsoft Teams	
Distance Learning		Centra	Cisco WebEx	
DATA ARCHITECTURE				
DBMS	SQL Server <2012 R2, Informix ≤11.7.x	SQL Server 2012/2014, Informix 12.1, MySQL 7.5	SQL Server 2014	
DBMS Modeling Tools	Power Designer <16.x	Power Designer 16.x		
Data Exchange Model	XML homegrown	Fixed format, GJXDM	Fixed format/XML	
Data Transmission Encryption	Triple Data Encryption Standard (DES)			
e-Mail Encryption		S/MIME		
NETWORKS AND PLATFORMS				
Client Operating System	<Windows 10 1809	Windows 10 1809	Windows 10 20H2	
Server & Network Operating Systems	Windows ≤2008 R2	Windows Server 2012 R2	Windows Server 2012 R2, 2016	2012R2 to be fully retired by 10/2021
SHARED SERVICES				
Component Service	DCOM, ASP (classic),	Services (previous version),		

Architecture Layers	Retirement (targeted for de-investment)	Containment (limited to maintenance & current commitments)	Current Court Technology or Product (fill in)	Remediation Plan/ Timeline
Layer	Remoting	unstructured APIs, WCF		
Login Authentication	Unsecured content	UserID/Password		
Remote Access Through Internet by Employees or Contractors	ipsec/AnyConnect		Cisco AnyConnect (employees only)	
Remote Access Through Internet by Vendors or Trusted Partners	ipsec/AnyConnect; TeamViewer n-2 version	TeamViewer n-1 version	LogMeIn Rescue (only on-demand; no permanently installed solutions)	
MESSAGE TRANSPORT MIDDLEWARE				
Message Transport	MQ ≤V7.1	MQ V7.5/V8.0	MQ V7.5	
Data Transformation	Data Junction, MQSI, DTS	Cloverleaf, WMB V10.0, BizTalk		
Data Routing/Publish and Subscribe	MQSI	Cloverleaf, WMB V10.0, BizTalk		
File Transfer, Transactional and Scheduled Production (Mission Critical)	FTP (intercourt and using public Internet), MQ ≤7.1	SFTP (intracourt only), MQ V7.5/8.0	MQ V7.5	
File Transfer, Production Non-Transactional and Ad Hoc (Not Mission Critical and Not Sensitive)	MQ ≤7.1, FTP	MQ V7.5/8.0	MQ V7.5	